

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P734096

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-RDP-B2750-W2D-CP187-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

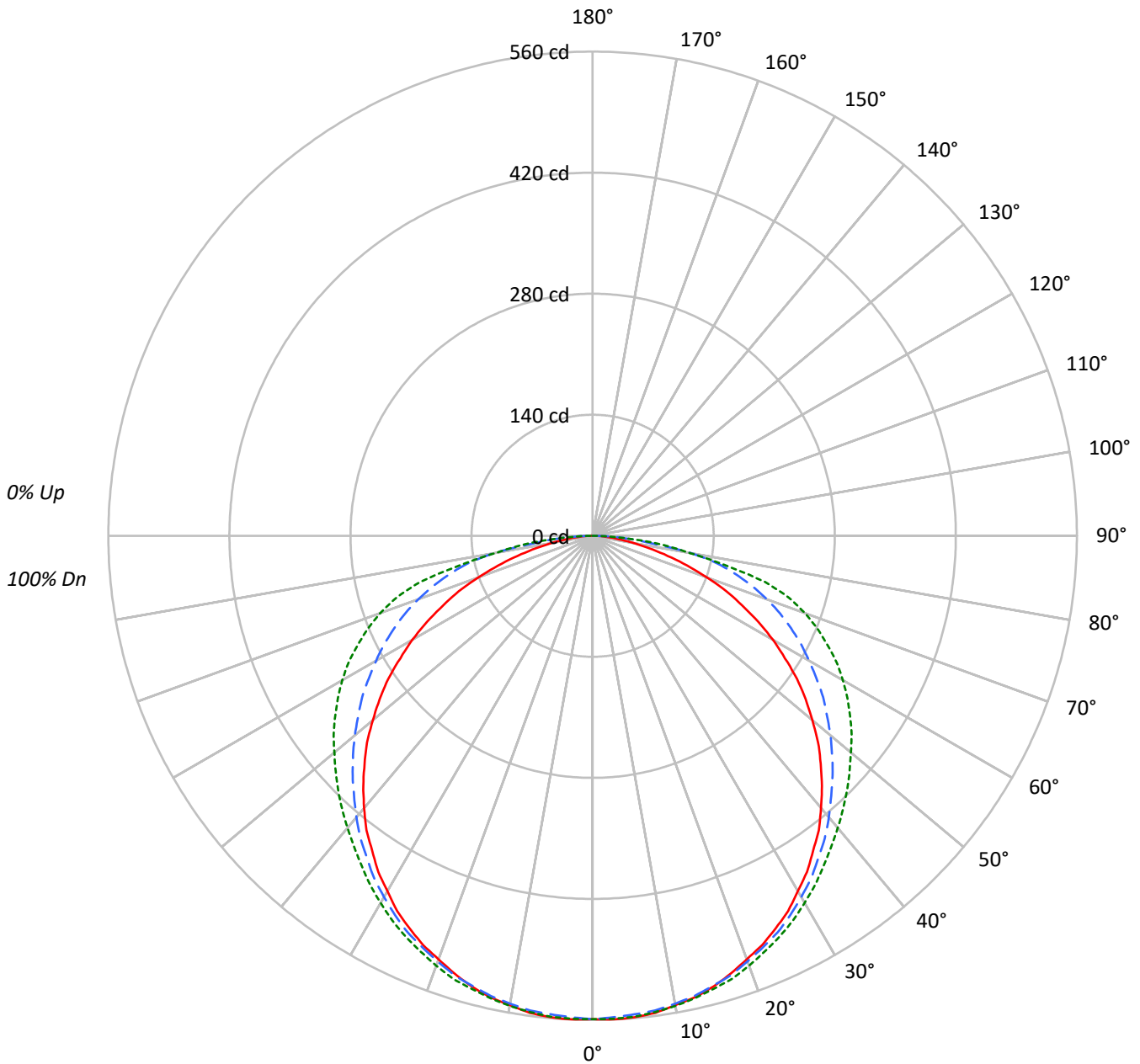
Lumens per Lamp: N/A
Luminaire Lumens: 1778.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	789	789	789
5°	792	787	791
10°	790	787	791
15°	789	787	792
20°	783	787	795
25°	780	788	797
30°	773	786	799
35°	766	784	802
40°	757	783	812
45°	744	783	831
50°	728	788	856
55°	710	801	894
60°	680	816	943
65°	636	845	1002
70°	579	884	1077
75°	491	933	1125
80°	387	939	910
85°	287	714	798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	3.0
10°-20°	152.6	8.6
20°-30°	233.4	13.1
30°-40°	285.4	16.0
40°-50°	304.1	17.1
50°-60°	290.8	16.4
60°-70°	246.3	13.9
70°-80°	165.6	9.3
80°-90°	46.7	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	439.1	24.7
0°-40°	724.5	40.7
0°-60°	1319.4	74.2
0°-90°	1778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	559	559	559	559	559	
5°	559	558	556	558	558	53
15°	540	540	539	543	542	152
25°	501	503	506	511	512	231
35°	444	448	455	464	466	278
45°	373	379	392	409	416	288
55°	288	299	325	351	363	257
65°	190	210	253	287	300	189
75°	90	123	171	200	206	96
85°	18	36	44	48	49	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	559.1	559.1	559.1	559.1	559.1
2.5°	560.0	560.0	557.3	559.1	559.1
5°	559.1	558.3	555.6	558.3	558.3
7.5°	556.5	555.6	553.8	556.5	555.6
10°	551.2	551.2	549.5	552.1	552.1
12.5°	546.8	545.9	545.0	548.5	547.7
15°	539.8	539.8	538.8	543.3	542.3
17.5°	531.0	531.8	532.7	536.2	537.1
20°	521.2	523.0	523.8	529.1	529.1
22.5°	512.3	513.3	515.0	520.3	520.3
25°	501.0	502.7	506.2	510.6	511.5
27.5°	489.5	490.3	494.8	501.0	501.8
30°	474.5	477.1	482.4	489.5	490.3
32.5°	461.2	463.9	470.0	477.1	478.8
35°	444.5	448.0	455.0	463.9	465.7
37.5°	429.5	432.2	441.0	450.7	453.3
40°	411.0	416.2	425.0	436.5	441.0
42.5°	392.5	397.7	408.3	423.3	428.7
45°	373.0	379.2	392.5	409.2	416.2
47.5°	353.7	360.7	375.7	395.1	403.0
50°	331.6	340.4	358.9	381.0	389.8
52.5°	310.4	321.0	341.4	366.0	377.5
55°	288.4	298.9	325.4	351.0	363.4
57.5°	263.7	277.8	306.9	336.0	349.2
60°	240.8	253.9	289.2	321.0	334.2
62.5°	216.1	233.7	271.6	305.1	318.4
65°	190.5	209.9	253.1	286.6	299.9
67.5°	167.6	188.8	234.6	268.1	281.4
70°	140.3	166.6	214.3	247.8	261.1
72.5°	114.6	143.8	193.1	225.8	238.1
75°	90.0	122.6	171.1	200.2	206.4
77.5°	67.0	101.4	148.1	160.5	156.1
80°	47.6	81.1	115.5	109.3	112.0
82.5°	30.8	61.8	71.5	81.1	83.8
85°	17.7	36.2	44.1	47.6	49.3
87.5°	8.0	13.2	17.7	17.7	16.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)